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DERWENT-ACC-NO: 1993-024163
DERWENT-WEEK: 199803

TITLE: Improving adhesion of aromatic polyamide fibre - by treating with epoxy! soln., UV irradiating with pulsed laser, then treating resorcinol-formalin-rubber latex

PRIORITY-DATA: 1991JP-0145211 (May 22, 1991)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐	JP 04352879 A	December 7, 1992		004	D06M015/693
☐	JP 2690413 B2	December 10, 1997		003	D06M015/693

INT-CL (IPC): C08J 7/00; D06M 10/08; D06M 13/11; D06M 15/693; D06M 101/36

ABSTRACTED-PUB-NO: JP 04352879A
BASIC-ABSTRACT:

Process comprises treating the fibre with an aq. epoxy soln. having more than two epoxy gps., immediately irradiating with a UV pulsed laser of less than 380nm wavelength, and continuously treating with a second treating agent contg. resorcinol-formalin-rubber latex (RFL).

The fibre includes para orientation aramid fibre, such as poly-p-phenylene terephthalamide and poly-p-phenylene -3,4'-diphenyl ether terephthalamide. The UV has 150-380nm wavelength, from an XeF, XeCl, KrF, ArF, or Cu vapour laser, YAG laser etc. Irradiation is performed in air, inert gas, under pressure or in vacuo at ordinary temp. to 100 deg. C.

USE/ADVANTAGE - Useful for reinforcing fibre of rubber such as tyre, hose, belt. The aromatic polyamide fibre becomes uneven on the surface, increasing the amorphous part, so adhesion of the epoxy to the polyamide fibre is improve

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epoxy (1 dp) to treat aramide fi (2 dp) to improve adhesion (Tit)

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